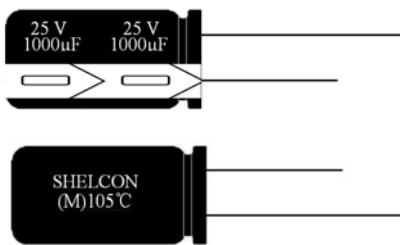


## SHC SERIES

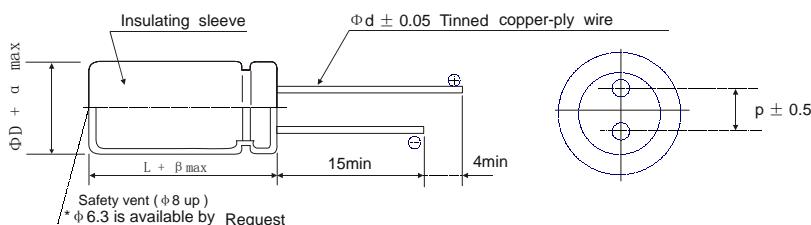
- Wide operating temperature range of -40 ~ +105°C
- Smaller case sizes than EG series
- Voltage range of 6.3 ~ 450V
- High CV value



## ■ SPECIFICATIONS

Item	Characteristics									
Operating Temperature Range	-40 ~ +105°C					-40 ~ +105°C				
Voltage Range	6.3 ~ 100 V.DC					160 ~ 350 V.DC				
Nominal Cap. Range	0.1 ~ 22000 μF					0.47 ~ 330μF				
Capacitance Tolerance	-20% ~ +20% (at 20°C, 120Hz)									
Leakage Current	WV	6.3 V ~ 100 V								160 V ~ 450 V
	L.C.	I = 0.01CV or 3(μA) whichever is greater(after 2min)				I = 0.02CV + 15(μA) (after 5 min.)				
where, I: Max Leakage Current (μA); C: Nominal Capacitance (μF), V: Rated Voltage(V) (at 20°C)										
Dissipation Factor (tanδ) (at 120Hz, +20°C)	WV	6.3	10	16	25	35	50	63	100	160~250
	tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	350~450
Add 0.02 per 1,000 μF for more than 1,000μF items.										
Low Temp. Impedance Stability at 120Hz	W. V.	6.3	10	16	25~35	50~100	160	200~350	400	450
	Z-25°C/Z+20°C	5	4	3	2	2	3	4	6	10
	Z-40°C/Z+20°C	8	6	4	3	3	4	8	-	-
High Temp. Load Test	After 2000 hours, application of DC rated working voltage at +105°C, the capacitor shall meet the following limits.									
	Capacitance change	... $\leq \pm 20\%$ of the initial measured value								
	Tan δ	... $\leq 200\%$ of the initial specified value								
High Temp. Non-Load Test	DC leakage current	... $\leq$ the initial specified value								
	After storage for 1000 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be met.									

## ● DRAWING



Unit:(mm)

ΦD	5	6.3	8	10	13	16	18		
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5		
Φd	0.5				0.6	0.8			
β	1.0				2.0				
α	0.5								

## ▼ MULTIPLIER FOR RIPPLE CURRENT

## (1) Frequency coefficient

Cap(μF)	Freq.(Hz)	60(50)	120	300	1K	10K
0.1~ 47	0.75	1.00	1.35	1.55	2.00	
68 ~ 680	0.80	1.00	1.25	1.34	1.50	
1000 ~ 22000	0.85	1.00	1.10	1.13	1.15	

## (2) Temperature coefficient

Ambient	40	60	70	85	105
Temperature(°C)					
Coefficient	2.40	2.10	1.78	1.65	1.00

